



C++ Multithreading Cookbook

Milos Ljumovic

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Over 60 recipes to help you create ultra-fast multithreaded applications using C++ with rules, guidelines, and best practices

About This Book

- Create multithreaded applications using the power of C++
- Upgrade your applications with parallel execution in easy-to-understand steps
- Stay up to date with new Windows 8 concurrent tasks
- Avoid classical synchronization problems
- Understand Windows API and concurrent execution

Who This Book Is For

The book is intended for enterprise developers and programmers who wish to make use of C++ capabilities to learn the multithreaded approach. Knowledge of multithreading along with experience in C++ is an added advantage. However it is not a prerequisite.

What You Will Learn

- Use an object-oriented programming model with inheritance, overloading, and polymorphism
- Solve common Interprocess Communication problems and avoid deadlocks or starvation problems in your application development
- Manage threads efficiently using the CThread class
- Explore .NET CLI/C++ features as well as synchronization objects and techniques
- Make use of parallel techniques in code design
- Use machine resources in concurrent execution
- Enable programs to work with each other using Message Passing
- Avoid classic synchronization problems

In Detail

Creating multithreaded applications is a present-day approach towards programming. With the power of C++, you can easily create various types of applications and perform parallelism and optimizations in your existing work. This book is a practical, powerful, and easy-to-understand guide to C++ multithreading. You will learn how to benefit from the multithreaded approach and enhance your development skills to build better applications. This book will not only help you avoid problems when creating parallel code, but also help you to understand synchronization techniques. The end goal of the book will be to impart various multithreading concepts that will enable you to do parallel computing and concurrent programming quickly and efficiently.

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Diana Elliott:

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